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		<i>DB=PGPB, USPT, EPAB, JPAB, DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L7	(cytomegalovirus glycoprotein 0)	2
<input type="checkbox"/>	L6	cytomegalovirus adj UL74	1
<input type="checkbox"/>	L5	L4 and cytomegalovirus	1
<input type="checkbox"/>	L4	Li L. in.	1730
<input type="checkbox"/>	L3	L1 and cytomegalovirus	0
<input type="checkbox"/>	L2	L1 and CMV	0
<input type="checkbox"/>	L1	Britt W. in.	16

END OF SEARCH HISTORY

=> "CMV (1) UL74"
L10 0 "CMV (L) UL74"

=> UL74
L11 10 UL74

=> CMV and L11
L12 2 CMV AND L11

=> D L12 IBIB abs 1-2

```
=> cytomegalovirus
      10840 CYTOMEGALOVIRUS
      138 CYTOMEGALOVIRUSES
L1      10854 CYTOMEGALOVIRUS
          (CYTOMEGALOVIRUS OR CYTOMEGALOVIRUSES)
```

```
=> compostion
      21 COMPOSTION
      8 COMPOSTIONS
L2      28 COMPOSTION
          (COMPOSTION OR COMPOSTIONS)
```

```
=> composition
      615135 COMPOSITION
      271919 COMPOSITIONS
      881933 COMPOSITION
          (COMPOSITION OR COMPOSITIONS)
      1276767 COMPN
      510689 COMPNS
      1562513 COMPN
          (COMPN OR COMPNS)
L3      1995950 COMPOSITION
          (COMPOSITION OR COMPN)
```

```
=> L3 and L1
L4      596 L3 AND L1
```

```
=> "glycoprotein O"
      87683 "GLYCOPROTEIN"
      96054 "GLYCOPROTEINS"
      134372 "GLYCOPROTEIN"
          ("GLYCOPROTEIN" OR "GLYCOPROTEINS")
      1407013 "O"
L5      73 "GLYCOPROTEIN O"
          ("GLYCOPROTEIN" (W) "O")
```

```
=> L4 and L5
L6      0 L4 AND L5
```

```
=> UL47
L7      51 UL47
```

```
=> L1 and L7
L8      7 L1 AND L7
```

```
=> L3 and L8
L9      1 L3 AND L8
```

```
=> L5 and L1
L10     10 L5 AND L1
```

```
=> L3 and L10
L11     0 L3 AND L10
```

=> cytomegalovirus
L1 39852 CYTOMEGALOVIRUS

=> "UL 47"
L2 2 "UL 47"

=> "UL47"
L3 82 "UL47"

=> "glycoprotein O"
L4 106 "GLYCOPROTEIN O"

=> "GO"
L5 55929 "GO"

=> "gO"
L6 55929 "GO"

=> L1 ans L6
MISSING OPERATOR L1 ANS
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> L1 and L6
L7 48 L1 AND L6

=> L1 and L3
L8 10 L1 AND L3

=> L1 and L4
L9 18 L1 AND L4

=> Remove duplicate L9

L7 ANSWER 41 OF 48 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

ACCESSION NUMBER: 1998:479407 BIOSIS

DOCUMENT NUMBER: PREV199800479407

TITLE: The human **cytomegalovirus** UL74 gene encodes the third component of the glycoprotein H-glycoprotein L-containing envelope complex.

AUTHOR(S): Huber, Mary T.; Compton, Teresa [Reprint author]

CORPORATE SOURCE: Dep. Med. Microbiol. Immunol., 1300 University Ave., MS493, Univ. Wisconsin-Madison Med. Sch., Madison, WI 53706-1532, USA

SOURCE: Journal of Virology, (Oct., 1998) Vol. 72, No. 10, pp. 8191-8197. print.

CODEN: JOVIAM. ISSN: 0022-538X.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 5 Nov 1998

Last Updated on STN: 5 Nov 1998

TI The human **cytomegalovirus** UL74 gene encodes the third component of the glycoprotein H-glycoprotein L-containing envelope complex.

SO Journal of Virology, (Oct., 1998) Vol. 72, No. 10, pp. 8191-8197. print. CODEN: JOVIAM. ISSN: 0022-538X.

AU Huber, Mary T.; Compton, Teresa [Reprint author]

AB The human **cytomegalovirus** (HCMV) gCIII envelope complex is composed of glycoprotein H (gH; gpUL75), glycoprotein L (gL, gpUL115), and a third, 125-kDa protein not related to gH or gL (M. T. Huber and T. Compton, J. Virol. 71:5391-5398, 1997; L. Li, J. A. Nelson, and W. J. Britt, J. Virol. 71:3090-3097, 1997). Glycosidase digestion analysis demonstrated that the 125-kDa protein was a glycoprotein containing ca. 60 kDa of N-linked oligosaccharides on a peptide backbone of 65 kDa or less. Based on these biochemical characteristics, two HCMV open reading frames, UL74 and TRL/IRL12, were identified as candidate genes for the 125-kDa glycoprotein. To identify the gene encoding the 125-kDa glycoprotein, we purified the gCIII complex, separated the components by sodium dodecyl sulfate-polyacrylamide gel electrophoresis, and subjected gH and the 125-kDa glycoprotein to amino acid microsequence analysis. Microsequencing of an internal peptide derived from purified 125-kDa glycoprotein yielded the amino acid sequence LWGPTK. A FASTA search revealed an exact match of this sequence to amino acids 188 to 195 of the predicted product of the candidate gene UL74, which we have designated glycoprotein O (gO). Anti-gO antibodies reacted in immunoblots with a protein species migrating at ca. 100 to 125 kDa in lysates of HCMV-infected cells and with 100- and 125-kDa protein species in purified virions. Anti-gO antibodies also immunoprecipitated the gCIII complex and recognized the 125-kDa glycoprotein component of the gCIII complex. Positional homologs of the UL74 gene were found in other betaherpesviruses, and comparisons of the predicted products of the UL74 homolog genes demonstrated a number of conserved biochemical features

L63

L 13 2
1 2 8
L 11 29
L 8 10

ACCESSION NUMBER: 1999:238908 BIOSIS

DOCUMENT NUMBER: PREV199900238908

TITLE: Intracellular formation and processing of the heterotrimeric gH-gL-gO (gCIII) glycoprotein envelope complex of human **cytomegalovirus**.

AUTHOR(S): Huber, Mary T.; Compton, Teresa [Reprint author]

CORPORATE SOURCE: Department of Medical Microbiology and Immunology, University of Wisconsin, Madison, WI, 53706, USA

SOURCE: Journal of Virology, (May, 1999) Vol. 73, No. 5, pp. 3886-3892. print.

CODEN: JOVIAM. ISSN: 0022-538X.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 17 Jun 1999

Last Updated on STN: 17 Jun 1999

TI Intracellular formation and processing of the heterotrimeric gH-gL-gO (gCIII) glycoprotein envelope complex of human **cytomegalovirus**.

SO Journal of Virology, (May, 1999) Vol. 73, No. 5, pp. 3886-3892. print.
CODEN: JOVIAM. ISSN: 0022-538X.

AU Huber, Mary T.; Compton, Teresa [Reprint author]

AB The human **cytomegalovirus** (HCMV) gCIII complex contains glycoprotein H (gH; gpUL75), glycoprotein L (gL; gpUL115), and glycoprotein O (gO; gpUL74). To examine how gH, gL, and gO interact within HCMV-infected cells to assemble the tripartite complex, pulse-chase experiments were performed. These analyses demonstrated that gH and gL associate by the end of the pulse period to form a disulfide dependent gH-gL complex. Subsequently, the gH-gL complex interacts with a 100-kDa precursor form of gO to form a 220-kDa precursor of the mature gH-gL-gO complex that contains a 125-kDa form of gO. The 220-kDa precursor complex (pgCIII) was sensitive to treatment with endoglycosidase H (endo H), while the mature gCIII complex was essentially resistant to digestion with this enzyme, suggesting that formation of pgCIII complex occurs in the endoplasmic reticulum (ER) and is processed to mature gH-gL-gO (gCIII) in a post-ER compartment. While the N-linked glycans on the 100-kDa form of gO were modified to endo H-resistant states as the 125-kDa gO formed, additional posttranslational modifications were detected on gO. These processing alterations were non-N-linked oligosaccharide modifications that could not be accounted for by phosphorylation or by O-glycosylation of the type sensitive to O-glycanase. Of gH, gL, gO, and the various complexes that they form, only the mature form of the complex was detectable at the infected cell membrane, as judged by surface biotinylation studies.

L2 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:796011 CAPLUS

DOCUMENT NUMBER: 138:218045

TITLE: The genes encoding the gCIII complex of human cytomegalovirus exist in highly diverse combinations in clinical isolates

AUTHOR(S): Rasmussen, Lucy; Geissler, Aimee; Cowan, Catherine; Chase, Amanda; Winters, Mark

CORPORATE SOURCE: Dep. Med., Stanford Univ. Sch. Med., Stanford, CA, 94305, USA

SOURCE: Journal of Virology (2002), 76(21), 10841-10848

CODEN: JOVIAM; ISSN: 0022-538X

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

ABSTRACT:

The UL74 (glycoprotein O [gO])-UL75 (gH)-UL115 (gL) complex of human cytomegalovirus (CMV), known as the gCIII complex, is likely to play an important role in the life cycle of the virus. The gH and gL proteins have been assocd. with biol. activities, such as the induction of virus-neutralizing antibody, cell-virus fusion, and cell-to-cell spread of the virus. The sequences of the 2 gH gene variants, readily recognizable by restriction endonuclease polymorphism, are well conserved among clin. isolates, but nothing is known about the sequence variability of the gL and gO genes. Sequencing of the full-length gL and gO genes was performed with 22-39 clin. isolates, as well as with lab. strains AD169, Towne, and Toledo, to det. phylogenetically based variants of the genes. The sequence information provided the basis for identifying gL and gO variants by restriction endonuclease polymorphism. The predicted gL amino acid sequences varied <2% among the isolates, but the variability of gO among the isolates approached 45%. The variants of the genes coding for gCIII in lab. strains Towne, AD169, and Toledo were different from those in most clin. isolates. When clin. isolates from different patient populations with various degrees of symptomatic ***CMV*** disease were surveyed, the gO1 variant occurred almost exclusively with the gH1 variant. The gL2 variant occurred with a significantly lower frequency in the gH1 variant group. There were no configurations of the gCIII complex that were specifically assocd. with symptomatic CMV disease or human immunodeficiency virus serol. status. The potential for the gCIII complex to exist in diverse genetic combinations in clin. isolates points to a new aspect that must be considered in studies of the significance of ***CMV*** strain variability.

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L6 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:408793 CAPLUS
DOCUMENT NUMBER: 138:396186
TITLE: Human **cytomegalovirus glycoprotein**
O as a new drug target and subunit vaccine
candidate
INVENTOR(S): Compton, Teresa; Huber, Mary T.
PATENT ASSIGNEE(S): Wisconsin Alumni Research Foundation, USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6569616	B1	20030527	US 2000-627986	20000728
PRIORITY APPLN. INFO.:			US 1999-146180P	P 19990729

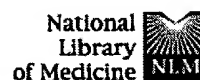
ABSTRACT:

A method of designing a new anti-CMV drug is disclosed. In one embodiment, the invention comprises (a) analyzing the binding of **glycoprotein** ***O*** to a **glycoprotein O** receptor and (b) designing a candidate drug that would competitively interfere with **glycoprotein** ***O*** binding to **glycoprotein O** receptor and (c) showing that the candidate drug competitively inhibits **glycoprotein** ***O*** binding to **glycoprotein O** receptor. A method of screening anti-CMV drugs, a vaccine effective to diminish CMV infection, and a method of diminishing CMV infection are also disclosed.

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:796011 CAPLUS
DOCUMENT NUMBER: 138:218045
TITLE: The genes encoding the gCIII complex of human **cytomegalovirus** exist in highly diverse combinations in clinical isolates
AUTHOR(S): Rasmussen, Lucy; Geissler, Aimee; Cowan, Catherine; Chase, Amanda; Winters, Mark
CORPORATE SOURCE: Dep. Med., Stanford Univ. Sch. Med., Stanford, CA, 94305, USA
SOURCE: Journal of Virology (2002), 76(21), 10841-10848
CODEN: JOVIAM; ISSN: 0022-538X
PUBLISHER: American Society for Microbiology
DOCUMENT TYPE: Journal
LANGUAGE: English
ABSTRACT:
The UL74 (**glycoprotein O** [gO]) -UL75 (gH) -UL115 (gL) complex of human **cytomegalovirus** (CMV), known as the gCIII complex, is likely to play an important role in the life cycle of the virus. The gH and gL proteins have been assocd. with biol. activities, such as the induction of virus-neutralizing antibody, cell-virus fusion, and cell-to-cell spread of the virus. The sequences of the 2 gH gene variants, readily recognizable by restriction endonuclease polymorphism, are well conserved among clin. isolates, but nothing is known about the sequence variability of the gL and gO genes. Sequencing of the full-length gL and gO genes was performed with 22-39 clin. isolates, as well as with lab. strains AD169, Towne, and Toledo, to det. phylogenetically based variants of the genes. The sequence information provided the basis for identifying gL and gO variants by restriction endonuclease polymorphism. The predicted gL amino acid sequences varied <2%



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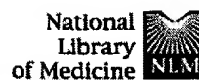
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#33	Search glycoprotein O and herpes virus Field: All Fields , Limits: Publication Date to 1999/07/29	09:52:34	73
#35	Search herpes virus UL74 Limits: Publication Date to 1999/07/29	09:46:59	0
#34	Search glycoprotein O and herpes virus UL74 Limits: Publication Date to 1999/07/29	09:46:51	0
#32	Search glycoprotein O and herpes virus	09:44:55	100
#31	Search glycoprotein O	09:44:42	10303
#29	Search Pietropaolo R 1997	09:34:50	1
#23	Search CMV glycoprotein O	08:53:10	156
#26	Search CMV glycoprotein O Field: All Fields , Limits: Publication Date to 1999/07/29	08:52:53	103
#22	Search CMV and glycoprotein O	08:40:23	156
#19	Search Britt W and glycoprotein O	08:38:04	3
#18	Search Britt W and UL74	08:37:52	0
#17	Search Britt W and CMV UL74	08:37:47	0
#16	Search Britt W and CMV	08:37:11	93
#15	Search Li L and CMV	08:36:18	9
#13	Search Li L 1997 and CMV	08:21:34	1
#12	Search Huber M and CMV	08:20:56	7
#10	Search Huber M 1997 and CMV	08:18:49	2
#9	Search Huber M 1997	08:18:41	32
#6	Search gretch D and CMV	08:17:34	7
#5	Search gretch D	08:17:24	92
#1	Search gretch D 1988	08:14:20	3

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Search	PubMed	for CMV glycoprotein O					Preview	
<input checked="" type="checkbox"/> Limits		Preview/Index		History	Clipboard	Details		

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#26	Search CMV glycoprotein O Field: All Fields , Limits: Publication Date to 1999/07/29	08:50:27	103
#23	Search CMV glycoprotein O	08:40:37	156
#22	Search CMV and glycoprotein O	08:40:23	156
#19	Search Britt W and glycoprotein O	08:38:04	3
#18	Search Britt W and UL74	08:37:52	0
#17	Search Britt W and CMV UL74	08:37:47	0
#16	Search Britt W and CMV	08:37:11	93
#15	Search Li L and CMV	08:36:18	9
#13	Search Li L 1997 and CMV	08:21:34	1
#12	Search Huber M and CMV	08:20:56	7
#10	Search Huber M 1997 and CMV	08:18:49	2
#9	Search Huber M 1997	08:18:41	32
#6	Search gretch D and CMV	08:17:34	7
#5	Search gretch D	08:17:24	92
#1	Search gretch D 1988	08:14:20	3

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